STAIRVILLE

Stage Flood QCL 24x10W

LED floodlight

thomann
MUSIC IS OUR PASSION

user manual

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1 General notes

This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device, include the manual for the next owner.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.

Warning signs	Type of danger
	Warning – hot surface.
	Warning – suspended load.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used as an electronic illumination effect using LED technics. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

DANGER!

Electric shock caused by short-circuit

Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.

WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.

WARNING!

Risk of burns at the surface and inside of the device

The surface and the inner parts of the device can become very hot during operation.

After switching off the device wait for at least 15 minutes before you start any maintenance activities.

NOTICE!

Risk of fire

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

Special features of the device:

- 24 × QCL LEDs (RGBW)
- Stand-alone and DMX mode operation (7 different modes)
- Easy operation via display and buttons on the unit
- 10 preprogrammed automatic shows
- 10 preprogrammed automatic programmes, editable
- Master / Slave mode
- Rugged aluminium housing
- Protection class IP65 allows outdoor operation

4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

You can install the device on the wall, ceiling or floor. A mounting bracket and the necessary screws are included in the package.

WARNING!

Risk of injury caused by falling objects

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.

NOTICE!

Risk of overheating

Always ensure sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

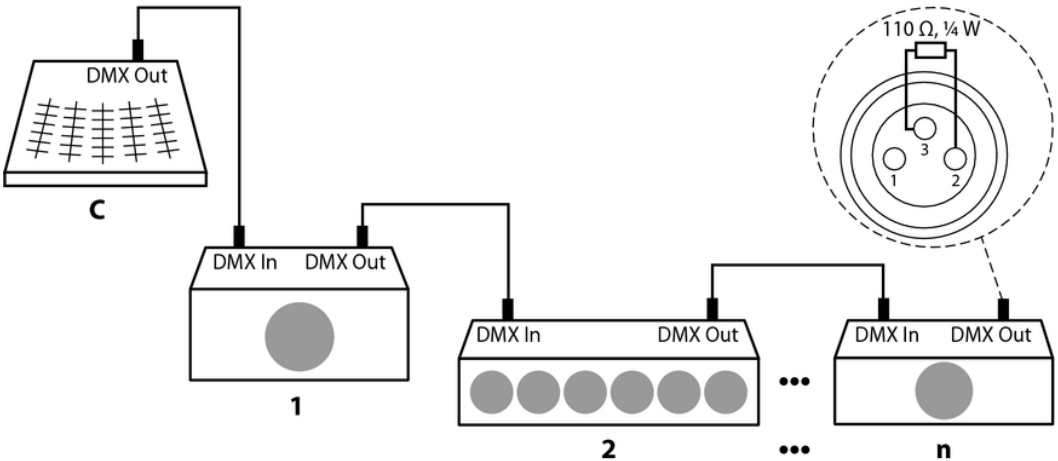
Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

5 Starting up

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω, ¼ W).



According to EIA-485, a maximum of 32 devices may be connected in series. The length of the data connection should not exceed 500 m. A further limitation arises from the supply voltage (see below).

Connections in master/slave mode

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

Mains power connections

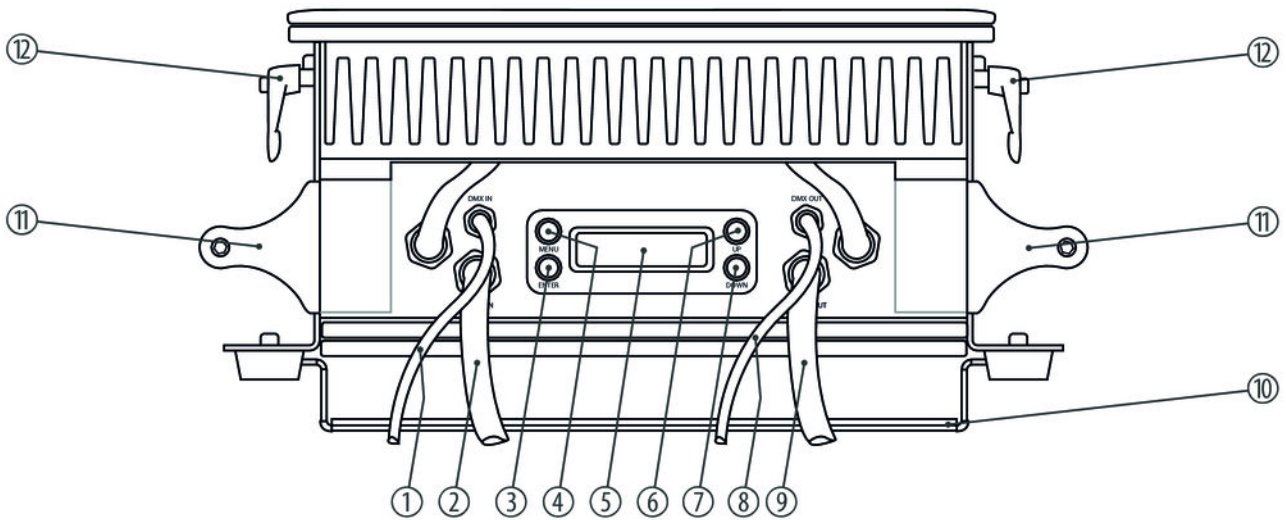
The unit offers non-detachable cables for power supply (**POWER IN**) and for feeding the power (**POWER OUT**) to another unit.

This allows setting up a power supply daisy chain.

However, the number of devices is limited:

- max. 10 units @ AC 110 V ~ , 60 Hz
- max. 20 units @ AC 230 V ~ , 50 Hz

6 Connections and operating elements



1	**DMX IN** DMX input.
2	**POWER IN** Incoming mains power cable.
3	*[ENTER]* button Selects an option of the respective operating mode, confirms the set value.
4	*[MENU]* button Activates the main menu and toggles between menu items. Closes an open submenu.
5	Display.
6	*[UP]* button Navigates upwards in a menu list. Increases the displayed value by one.
7	*[DOWN]* button Navigates downwards in a menu list. Decreases the displayed value by one.

8	**DMX OUT** DMX output.
9	**POWER OUT** Outgoing mains power cable.
10	Bracket for hanging or setting up.
11	Carrying handles.
12	Locking levers. By turning the levers you can loosen the locking and then adjust the inclination of the spotlight. When the desired position is adjusted, fasten the levers again.

7 Operating

7.1 Starting the device

Connect the unit to the power grid to start the operation.

7.2 Main menu

Press *[MENU]* to activate the main menu and select an operating mode. Use *[ENTER]* to select further options. Use *[UP]* and *[DOWN]* to change the respectively displayed value. When the display shows the desired value, press *[ENTER]*.

If you don't press any button for about 5 seconds the display turns off. It will be reactivated to display the previously shown menu by pressing any button.

The set values are retained even when the device is disconnected from the mains power supply.

Operating mode 'Static colour'

This operating mode can only be activated when the unit is working alone or as Master in a Master / Slave combination. This setting is only relevant when the unit is not DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'Static Color'*. Press *[ENTER]*.

Use *[UP]* and *[DOWN]* to select the submenus (dimmer, R, G, b, W, S). Confirm the selection with *[ENTER]*.

Use *[UP]* and *[DOWN]* to set the various values:

- Dimmer: brightness, value range is between *'000'* and *'255'*
- R: intensity red, value range is between *'000'* and *'255'*
- G: intensity green, value range is between *'000'* and *'255'*
- b: intensity blue, value range is between *'000'* and *'255'*
- W: intensity white, value range is between *'000'* and *'255'*
- S: strobe effect, value range is between *'00'* and *'20'* (0 … 20 Hz)

Confirm each entry with *[ENTER]*.

Operating mode 'Preprogrammed automatic shows'

This operating mode can only be activated when the unit is working alone or as Master in a Master / Slave combination. This setting is only relevant when the unit is not DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'AUTO'*. Press *[ENTER]*.

Now you can select with *[UP]* and *[DOWN]* between *'Aut.'* and *'Pro.'*.

Both submenus offer 10 preprogrammed shows each. The shows under 'Aut.' are fixed preprogrammed and can not be modified, in contrast to those under 'Pro'.

Operating mode 'Preprogrammed automatic programmes'

This operating mode can only be activated when the unit is working alone or as Master in a Master / Slave combination. This setting is only relevant when the unit is not DMX-controlled.

For 10 programmes, you can adjust colour, speed, strobe frequency and fade speed.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'EDIT'*. Press *[ENTER]*.

Use *[UP]* and *[DOWN]* to select a value between *'Pro01'* and *'Pro10'* and press *[ENTER]* to call up the programme you want to modify.

Use *[UP]* and *[DOWN]* to select the submenus (R, G, b, W, S, t , F). Confirm the selection with *[ENTER]*.

Use *[UP]* and *[DOWN]* to set the various values:

- R: intensity red, value range is between *'000'* and *'255'*
- G: intensity green, value range is between *'000'* and *'255'*
- b: intensity blue, value range is between *'000'* and *'255'*
- W: intensity white, value range is between *'000'* and *'255'*
- S: strobe effect, value range is between *'00'* and *'20'* (0 … 20 Hz)
- t: speed, value range is between *'000'* and *'255'*
- F: fade speed, value range is between *'000'* and *'255'*

Confirm each entry with *[ENTER]*.

DMX mode

This setting is only relevant when the unit is DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'RUN'*. Press *[ENTER]*.

If applicable, use *[UP]* and *[DOWN]* to select *'dMX'* and press *[ENTER]*.

DMX address

For DMX operation, you have to set the number of the first DMX channel to be used by the device (DMX address).

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'DMX Address'*. Press *[ENTER]*.

Use *[UP]* and *[DOWN]* to select a value between 1 and 512 (display shows *'DMX Addr: 001'* … *'DMX Addr: 512'*).

Make sure that this number matches the configuration of your DMX controller. The following table shows the highest possible first DMX address for the various DMX modes.

Mode	Highest possible first DMX address
3-channel	510
4-channel	509
5-channel	508
6-channel	507
11-channel	502

DMX operation mode selection

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'Personality'*. Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now select one of the following DMX operation modes:

- *'STAGE'* (11 channels)
- *'Arc.1'* (three channels – RGB)
- *'Ar1.d'* (four channels – RGB + dimmer)
- *'Arc.2'* (four channels – RGBW)
- *'Ar2.d'* (five channels – RGBW + dimmer)
- *'Ar2.s'* (six channels – RGBW + dimmer + strobe effect)
- *'HSv'* (three channels – hue, saturation, brightness)

ID address assignment

You can assign up to 66 ID addresses to each DMX address. This allows the grouping of devices. In 11-channel DMX mode, the devices of a group (same DMX address) can be controlled together (via channels 1 to 10) or separately by making another differentiation based on the IDs via channel 11.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'ID Address'*. Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now select one of 66 ID addresses.

Operating mode 'Slave'

This setting is only relevant if the unit operates as Slave in a Master / Slave configuration, and is not DMX-controlled.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'RUN'*. Press *[ENTER]*.

If applicable, use *[UP]* and *[DOWN]* to select *'SLA'* and press *[ENTER]*.

Settings

These submenus are used to adjust the system settings.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'SET'*. Press *[ENTER]*.

Select one of the following submenus:

- *'UPLD'*:
  This one starts the upload (copying from the Master unit into the Slave units) of the pre-programmed automatic programmes. Password entry is necessary. To do so, press *[UP]+[DOWN]+[UP]+[DOWN]* in sequence and then *[ENTER]*.
  The Slave units signalise the upload progress:
  - yellow light: upload in process
  - red light: an error occurred
  - green light: upload successful
- *'REST'*:
  This one resets to defaults. Password entry is necessary. To do so, press *[UP]+[DOWN]+[UP]+[DOWN]* in sequence and then *[ENTER]*.
- *'Id'*:
  This one is used to enable (*'on'*) or disable (*'oFF'*) the usage of the ID addressing via DMX controller.
- *'REGW'*:

This one determines, whether the white colour is defined by RGB=255.255.255 (*'Yes'*), or is manually defined via the CAL2 menu (*'No'*).

- *'dim'*:
  This one determines the dimmer mode or the speeds:
  - Setting *'oFF'*: Changes of dimmer and RGBW are done linearly.
  - Settings *'dim1'*, *'dim2'*, *'dim3'* *'dim4'*: Speed modes for the non-linear dimmer; 'dim1' is the fastest, 'dim4' is the slowest.

Setting colour temperature for 'White'

11 different preprogrammed values for colour temperature 'White' can be edited.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'CAL1 white'* . Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now call up one of the 11 predefined settings for 'White' (*'WT01'* … *'WT11'*).

Press *[ENTER]*, then you can change the following values:

- R: intensity red, value range is between *'000'* and *'255'*
- G: intensity green, value range is between *'000'* and *'255'*
- b: intensity blue, value range is between *'000'* and *'255'*
- W: intensity white, value range is between *'000'* and *'255'*

Defining different values for 'White'

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'CAL2'*. Press *[ENTER]*.

Die display shows *'REGW'*. Press *[ENTER]*.

You can change the following values:

- R: intensity red, value range is between *'000'* and *'255'*
- G: intensity green, value range is between *'000'* and *'255'*
- b: intensity blue, value range is between *'000'* and *'255'*

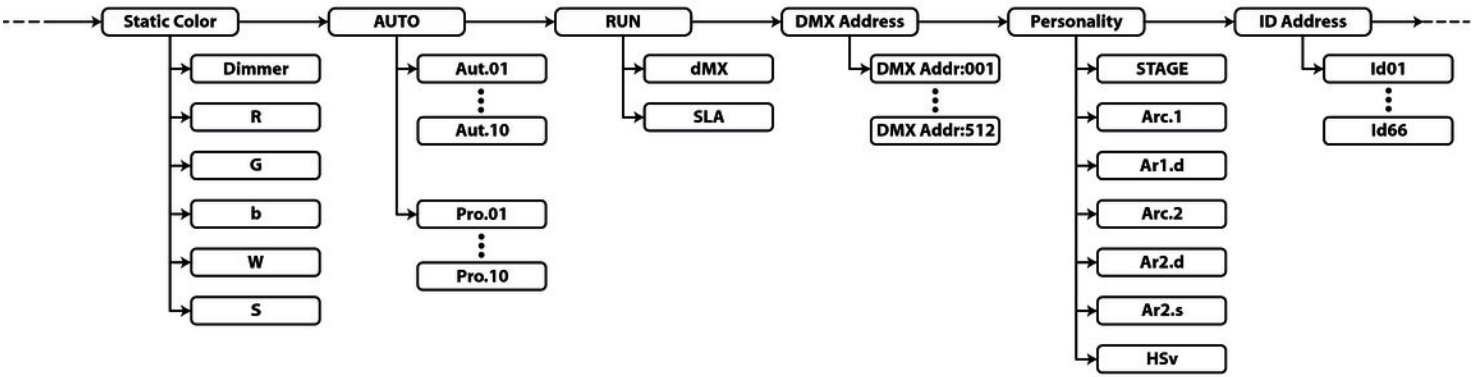
Enabling / disabling the password

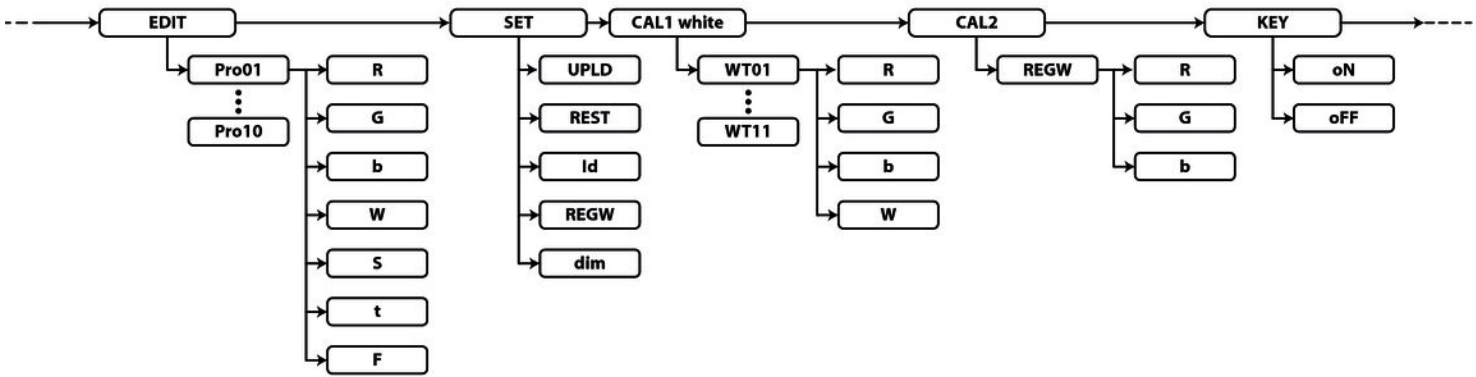
You can specify whether to enable or disable the access password. To enter the password, press *[UP]+[DOWN]+[UP]+[DOWN]* in sequence and confirm with *[ENTER]*.

Press *[MENU]* to enter the main menu and then *[UP]* or *[DOWN]* until the display shows *'KEY'*. Press *[ENTER]*.

With *[UP]* and *[DOWN]* you can now select between *'oN'* and *'oFF'*. Then press *[ENTER]*.

7.3 Menu overview




EDIT
SET
CAL1 white
CAL2
KEY
Pro01
Pro10
R
G
b
W
S
t
F
UPLD
REST
Id
REGW
dim
WT01
WT11
R
G
b
W
REGW
R
G
b
oN
oFF

7.4 Functions in 3-channel DMX mode (Arc.1)

Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %)
2	0…255	Intensity green (0 % to 100 %)
3	0…255	Intensity blue (0 % to 100 %)

7.5 Functions in 3-channel DMX mode (HSV)

Channel	Value	Function
1	0…255	Hue (0 % to 100 %)
2	0…255	Saturation (0 % to 100 %)
3	0…255	Dimmer (0 % to 100 %)

7.6 Functions in 4-channel DMX mode (Ar1.d)

Channel	Value	Function
1	0…255	Dimmer (0 % to 100 %)
2	0…255	Intensity red (0 % to 100 %)
3	0…255	Intensity green (0 % to 100 %)
4	0…255	Intensity blue (0 % to 100 %)

7.7 Functions in 4-channel DMX mode (Arc.2)

Channel	Value	Function
1	0…255	Intensity red (0 % to 100 %)
2	0…255	Intensity green (0 % to 100 %)
3	0…255	Intensity blue (0 % to 100 %)
4	0…255	Intensity white (0 % to 100 %)

7.8 Functions in 5-channel DMX mode (Ac2.d)

Channel	Value	Function
1	0…255	Dimmer (0 % to 100 %)
2	0…255	Intensity red (0 % to 100 %)
3	0…255	Intensity green (0 % to 100 %)
4	0…255	Intensity blue (0 % to 100 %)
5	0…255	Intensity white (0 % to 100 %)

7.9 Functions in 6-channel DMX mode (Ac2.s)

Channel	Value	Function
1	0…255	Dimmer (0 % to 100 %)
2	0…255	Intensity red (0 % to 100 %)
3	0…255	Intensity green (0 % to 100 %)
4	0…255	Intensity blue (0 % to 100 %)
5	0…255	Intensity white (0 % to 100 %)
6	0…255	Strobe effect (0 Hz to 20 Hz)

7.10 Functions in 11-channel DMX mode (STAGE)

Channel	Value	Function
1	0…255	Dimmer (0 % to 100 %)
2	0…255	Intensity red (0 % to 100 %). Speed adjustment, if one of the preprogrammed automatic programmes is active (channel 8)
3	0…255	Intensity green (0 % to 100 %). Fade speed adjustment, if one of the preprogrammed automatic programmes is active (channel 8)
4	0…255	Intensity blue (0 % to 100 %)
5	0…255	Intensity white (0 % to 100 %)
6	0…10	No function
	11…20	Red 100 %, intensity green (0 % to 100 % fade-in; if channel 7 = 0, no change), blue 0 %, white 0 %

Channel	Value	Function
	21…30	Intensity red (0 % to 100 % fade-in; if channel 7 = 0, no change), green 100 %, blue 0 %, white 0 %
	31…40	Red 0 %, green 100 %, intensity blue (0 % to 100 % fade-in; if channel 7 = 0, no change), white 0 %
	41…50	Red 0 %, intensity green (0 % to 100 % fade-in; if channel 7 = 0, no change), blue 100 %, white 0 %
	51…60	Intensity red (0 % to 100 % fade-in; if channel 7 = 0, no change), green 0 %, blue 100 %, white 0 %
	61…70	Red 100 %, green 0 %, intensity blue (0 % to 100 % fade-in; if channel 7 = 0, no change), white 0 %
	71…80	Red 100 %, green 0 %, blue 0 %, intensity white (0 % to 100 % fade-in; if channel 7 = 0, no change)
	81…90	Red 100 %, green 0 %, blue 0 %, intensity white (0 % to 100 % fade-in; if channel 7 = 0, no change)
	91…100	Colour transitions, speed is controlled via channel 7
	101…110	Colour transitions, speed is controlled via channel 7

Channel	Value	Function
	111…120	Colour transitions, speed is controlled via channel 7
	121…130	Colour transitions, speed is controlled via channel 7
	131…140	Colour transitions, speed is controlled via channel 7
	141…150	Colour transitions, speed is controlled via channel 7
	151…160	Colour transitions, speed is controlled via channel 7
	161…170	Colour transitions, speed is controlled via channel 7
	171…180	Colour transitions, speed is controlled via channel 7
	181…190	Colour transitions, speed is controlled via channel 7
	191…200	RGBW
	201…205	White 1
	206…210	White 2
	211…215	White 3
	216…220	White 4

Channel	Value	Function
	221…225	White 5
	226…230	White 6
	231…235	White 7
	236…240	White 8
	241…245	White 9
	246…250	White 10
	251…255	White 11
7	0…255	If channel 6 (11…90) fade-in speed of fixed colour; if channel 6 (91…190) speed of colour transitions
	0…15	No function
	16…255	Strobe effect (0 Hz to 20 Hz) of channels 1 to 5
8	0…9	No function
	10…19	Preprogrammed automatic show 1

Channel	Value	Function
	20…29	Preprogrammed automatic show 2
	30…39	Preprogrammed automatic show 3
	40…49	Preprogrammed automatic show 4
	50…59	Preprogrammed automatic show 5
	60…69	Preprogrammed automatic show 6
	70…79	Preprogrammed automatic show 7
	80…89	Preprogrammed automatic show 8
	90…99	Preprogrammed automatic show 9
	100…109	Preprogrammed automatic show 10
	110…255	No function
9	0…255	Speed, if preprogrammed automatic shows are enabled (channel 8, values 10…109)
10	0…49	Dimmer is off, changes of dimmer and RGBW are done linearly
	50…99	Dimmer speed 1

Channel	Value	Function
	100…149	Dimmer speed 2
	150…199	Dimmer speed 3
	200…255	Dimmer speed 4
11	Determination of ID addresses for the set DMX address	
	0…9	All IDs
	10…19	ID1
	20…29	ID2
	...	...
	200…209	ID20
	210	ID21
	211	ID22
	...	...
	255	ID66

8 Technical specifications

Number of DMX channels	3, 4, 5, 6, 11
Illuminant	24 × 10 W LEDs
Operating supply voltage	AC 230 V ~ , 50 Hz / AC 110 V ~, 60 Hz
Power consumption	248 W
Protection class	IP65
Dimensions (L × W × H)	427 mm × 196 mm × 190 mm
Weight	12.5 kg

9 Troubleshooting

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work, no light.	Check the mains connection and the main fuse.
No response to the DMX controller.	1. Check the DMX ports and cables for proper connection.
	2. Try using another DMX controller.
	3. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

10 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This device is subject to the European directive 2002/96/EC.

Do not dispose of the device with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.